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## Patent Abstracts of Japan

PUBLICATION NUMBER : 63136316  
PUBLICATION DATE : 08-06-88

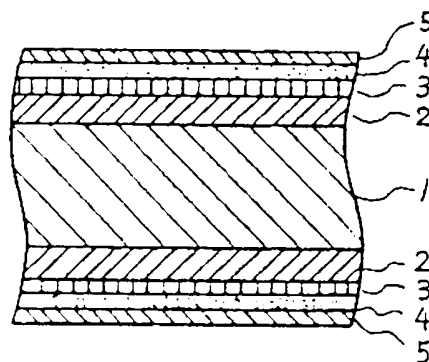
APPLICATION DATE : 28-11-86  
APPLICATION NUMBER : 61281790

APPLICANT : HITACHI LTD;

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INT.CL. : G11B 5/66 C23C 14/06 G11B 5/72

TITLE : MAGNETIC RECORDING BODY



**ABSTRACT :** PURPOSE: To improve sliding resistant lubricity by subjecting carbon protective layers which constitute a magnetic recording medium to a surface treatment to form a functional group and chemically modifying a high-polymer compd. having lubricity to such functional group.

**CONSTITUTION:** Nonmagnetic alloy layers 2 are coated on an alloy disk 1 and thin magnetic film layers 3 are coated on the polished surfaces of the nonmagnetic alloy layers 2. The carbon protective layers 4 are further coated on the thin magnetic film layers 3. The carbon protective layers 4 can form an -OH group or -COOH group on the surface when subjected to an oxidative plasma treatment or chemical oxidation treatment. The high-polymer lubricating agent having the functional group, for example, silanol group or -Si(OH)<sub>3</sub>, which can react chemically with the functional group formed on the surfaces of the carbon protective layers 4 at the terminal is chemically modified, by which the secure lubricating layers 5 are formed on the carbon protective layers 4. The lubricity of the magnetic recording body is thereby improved.

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